

#### **014 Abstract of the Disclosure**

In the space, the wastes from human, animals and crop can be fully recycled by rearing maggot which will be nourishing feedstuff for feeding animals. These animals and their eggs combines with the crop plants that NASA developed will be varied food for human in space. The water and nutrition leaving in the residues after rearing maggot can be recycled and fertilized by the crop plant again. Rearing maggot and animals combined with crop plants could achieve a self-sufficient food regenerative system from most wastes to enable human to live and work in space-independent of earth-provided food in long term mission.